

Study Area Code: 532359

Study Area Name: Beaver Creek Cooperative Telephone Company

Program Year: 2014

### Functionality in Emergency Situations

Beaver Creek Cooperative Telephone Company provides the following information to support its abilities to remain functional in an emergency situation:

#### Back-up Power

Switches – stand alone and/or host

Central Office: 400KW diesel generator with 400 gallon belly tank. Run time is approximately 72 hours. Battery plant capacity is 1200-Ah at eight hours. Present load on battery plant is 340-Ah.

#### Subscriber Carrier (DLC, DSLAM)

Beaver Creek Cooperative Telephone Company has the following site/node locations: Windy City, Clarkes, Timber Grove, Highland, Leisure Woods, Hogback, Fallsvie, Steiner, Beaver Creek, Eldorado, Carus, Leland, Hoffman, Henrici, Fairway, Trails End, Nobel Ridge, Settler's Point, Gentry Estates, Kala, Bailey Estates and Loder. Site equipment is commercially fed, with eight hours of backup battery capacity that can be supplemented with portable generators at each site as needed.

#### Network Interface Device (NID)

Customers with metallic (copper) connections are provisioned with NIDs powered from the central office.

Customers with non-metallic (fiber optic) connections are provisioned with NIDs that are battery-powered in case of emergency. Battery backup is supplied at each location with eight hours of reserve under no use and approximately six hours of constant use.

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Functionality in Emergency Situations (continued)

Ability to reroute traffic around damaged facilities

Beaver Creek Cooperative Telephone Company (BCT) has redundant facilities between its exchanges and/or its connecting company. Redundancy is in the form of a SONET fiber ring between BCT, CenturyLink, Inc. and Reliance Connects. CenturyLink, Inc. provides interconnection to the Public Switched Telephone Network.

Capability to manage traffic spikes resulting from emergency situations

Beaver Creek Cooperative Telephone Company's current configuration of DLCs with a 4:1 customer to GR-303 trunk ratio, coupled with customers directly fed from the central office main distribution frame puts BCT at an estimated 3:1 customer to switch interface ratio.

Trunk capacity for EAS and toll services are estimated to be between 16 to 24 customers to one trunk. Approximately 584 calls could be transported simultaneously.

Beaver Creek Cooperative Telephone Company takes no responsibility for the capabilities of interconnected networks to manage traffic spikes resulting from emergency situations and will continue its best efforts for its own networks during such events.